

ENGINEERING CHANGE REQUEST (ECR)

ECR Number: 02.0007

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ECR Title: CCG CONTROLLER REPLACEMENT

Key S/S or Assy: 110.101 S/S or Assy Name: Microwave Control Assembly

ECR Status: ****APPROVED FOR IMPLEMENTATION****

Date : 03/08/2002

Originator: Arthur J. Freiley Badge Number: 106439

Type: PERMANENT

Priority Routine

Add or modify interface: Yes

No threat to either the successful performance of a mission, or to personnel. Process in a timely manner.

Task Identification: CCG UNIFICATION TASK, PHASE II

Funds Available? YES

Estimated Implementation Cost: 2233K

PROBLEM, NEED FOR CHANGE (include Impact if NOT done):

The UWV CCG Systems were implemented over a 6 to 8 year period with various models of PCs and operating system versions that are no longer supported by the manufacturer. This makes it difficult to implement uniform changes to all controllers network wide. The current controllers are legacy systems conforming to the obsolete 890 series protocols and requirements. The subsystem controllers need to be upgraded to meet the current MON requirements.

This implementation will be phase II of the CCG Unification Task.

IMPACT-IF-NOT-DONE:

The UWV controllers will continue to be a legacy system with an obsolete operating system. When the NMC discontinues support of the legacy system, the UWV subsystem will be unable to provide monitor and control functions.

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PROPOSED SOLUTION:

This change to the CCG equipment will replace the PC controller and OS-2 operating systems with new SUN Computers with the Solaris (UNIX) Operating Systems. The new controllers will meet and support all MON requirements.

Other Assemblies affected:

110.106 110.107 201.101 201.102 323.202

AFFECTED LOCATION(s)

GOLDSTONE: DSS-27 DSS-26 DSS-25 DSS-24 DSS-15 DSS-14

CANBERRA: DSS-45 DSS-43 DSS-34

MADRID: DSS-65 DSS-63 DSS-55 DSS-54

JPL: DTF-21

OTHER:

Related ECRs: 1.0040